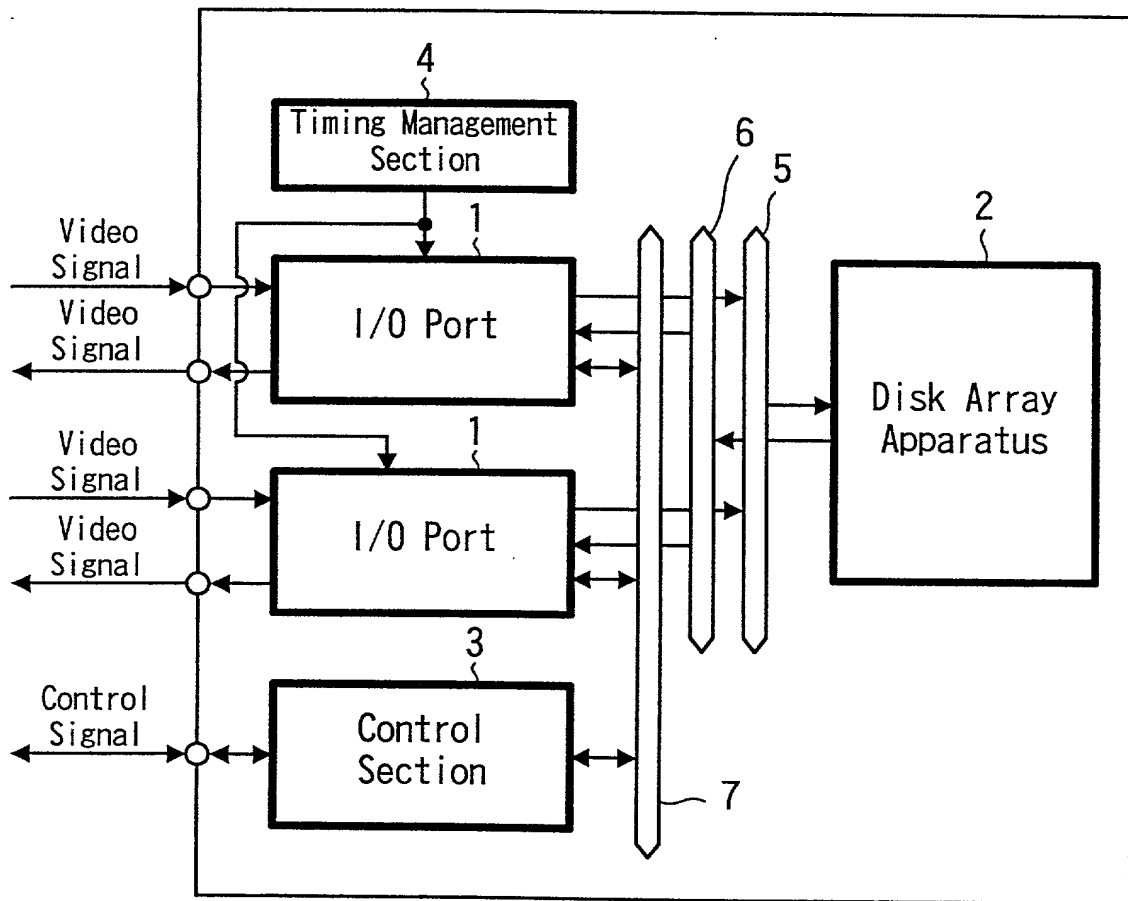


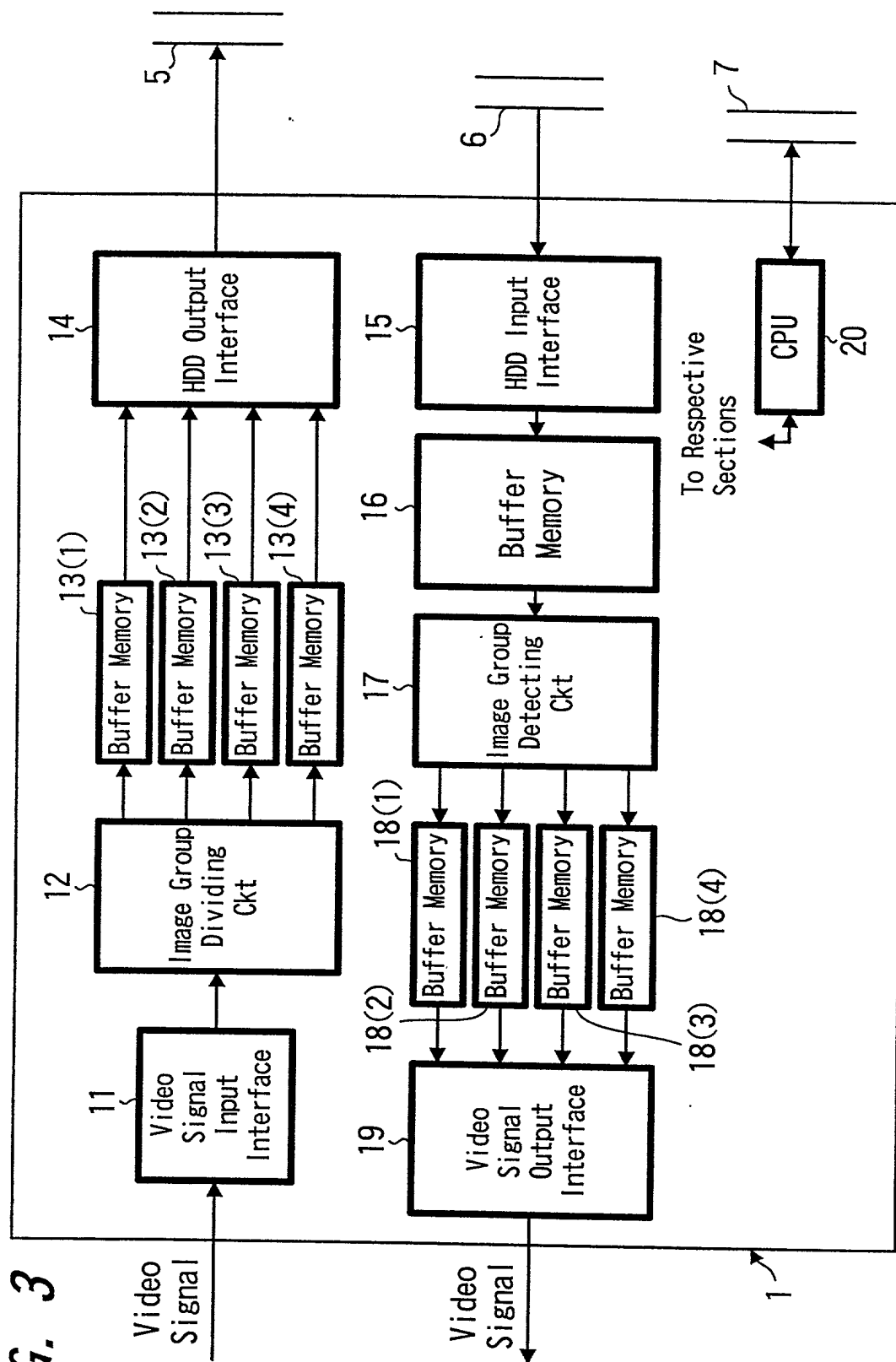
***FIG. 1*** (RELATED ART)

Frame No.	Group W	Group X	Group Y	Group Z
1	A	B	C	D
2	B	C	D	A
3	C	D	A	B
4	D	A	B	C
5	A	B	C	D
6	B	C	D	A
7	C	D	A	B
8	D	A	B	C
9	A	B	C	D
10	B	C	D	A
11	C	D	A	B
12	D	A	B	C
13	A	B	C	D
14	B	C	D	A
15	C	D	A	B
16	D	A	B	C
⋮	⋮	⋮	⋮	⋮

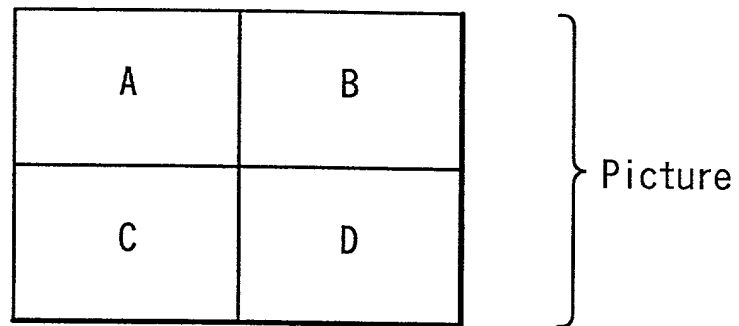
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FIG. 2





**FIG. 4**



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FIG. 5

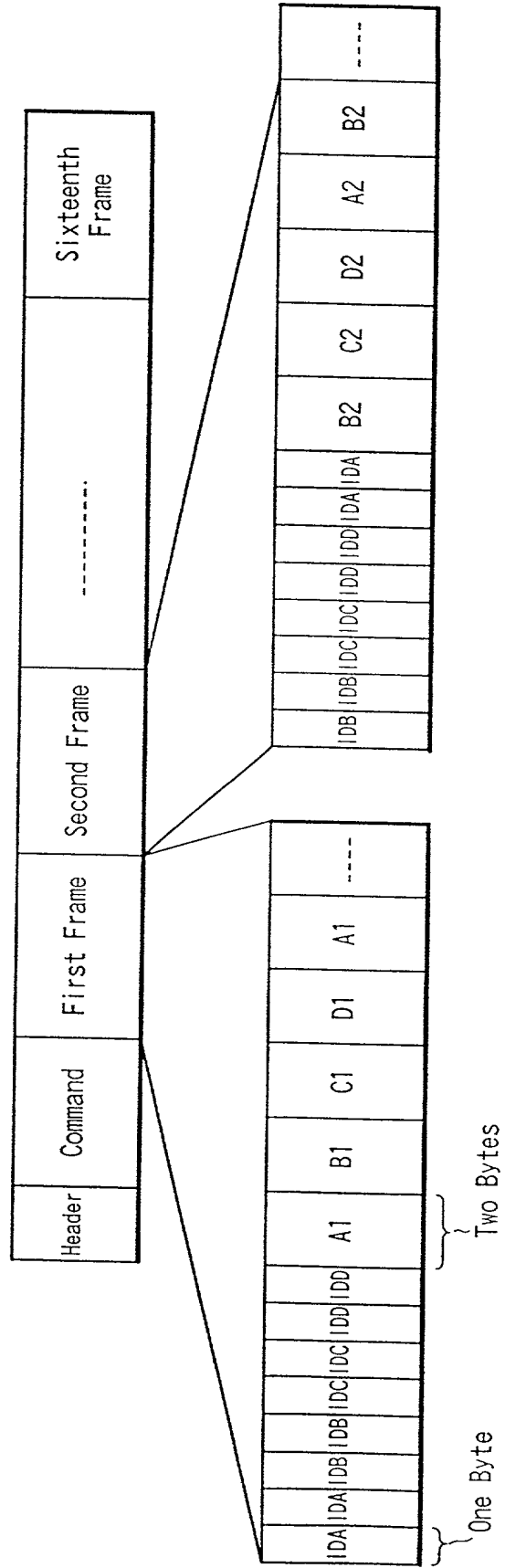
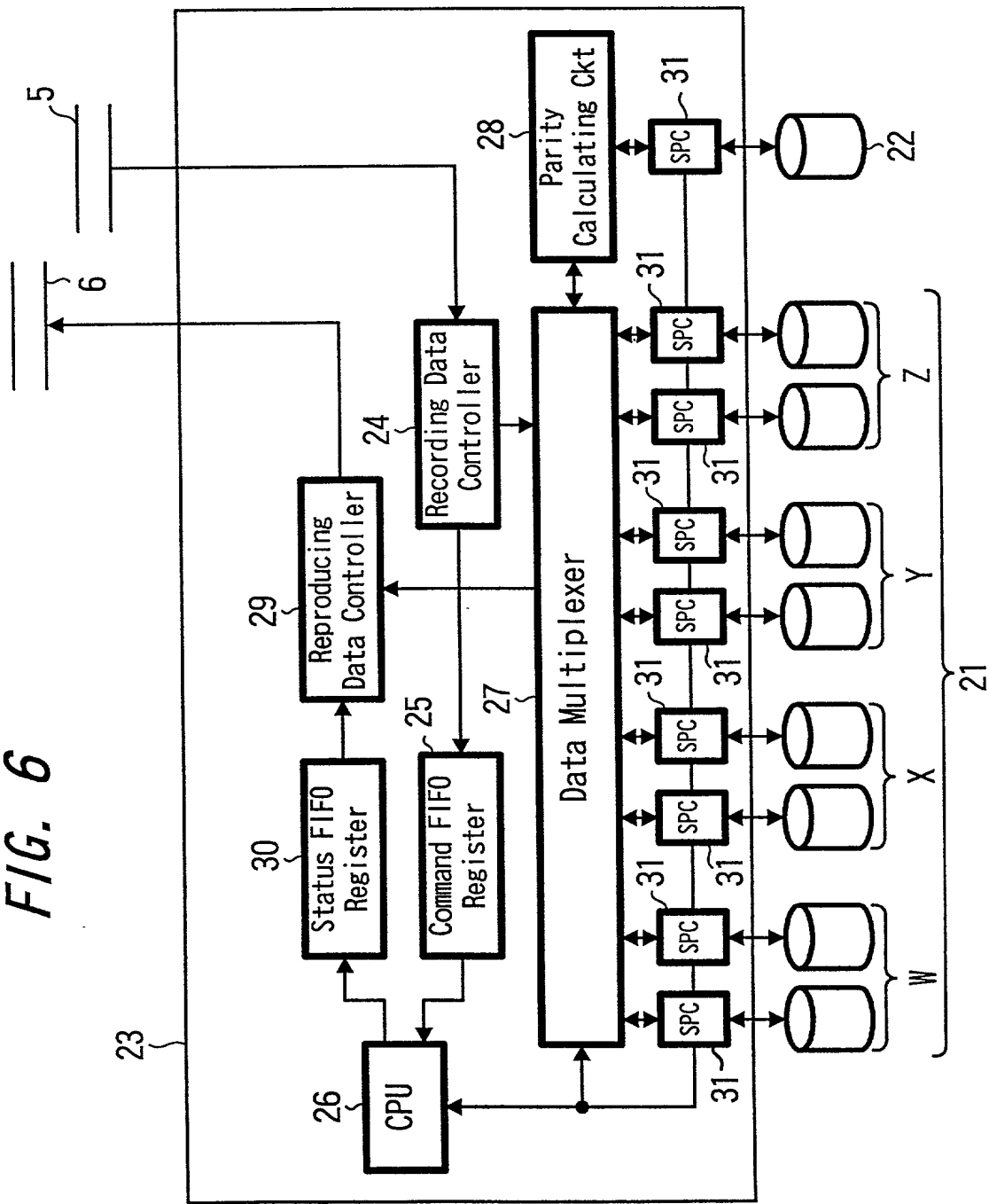


FIG. 6



**FIG. 7**

Frame No.	Group W	Group X	Group y	Group Z	HDD22
1	A1	B1	C1	D1	Parity Bit
2	B2	C2	D2	A2	Parity Bit
3	C3	D3	A3	B3	Parity Bit
4	D4	A4	B4	C4	Parity Bit
5	A5	B5	C5	D5	Parity Bit
6	B6	C6	D6	A6	Parity Bit
7	C7	D7	A7	B7	Parity Bit
8	D8	A8	B8	C8	Parity Bit
9	A9	B9	C9	D9	Parity Bit
10	B10	C10	D10	A10	Parity Bit
11	C11	D11	A11	B11	Parity Bit
12	D12	A12	B12	C12	Parity Bit
13	A13	B13	C13	D13	Parity Bit
14	B14	C14	D14	A14	Parity Bit
15	C15	D15	A15	B15	Parity Bit
16	D16	A16	B16	C16	Parity Bit
⋮	⋮	⋮	⋮	⋮	⋮

FIG. 7

FIG. 8

Framre No.	Group W	Group X	Group Y	Group Z	HDD22
1	A1				
2	B2				
3	C3				
4	D4				
5	A5				
6	B6				
7	C7				
8	D8				
9	A9				
10	B10				
11	C11				
12	D12				
13	A13				
14	B14				
15	C15				
16	D16				
17		B17			
18		C18			
19		D19			
20		A20			
21		B21			
22		C22			
23		D23			
24		A24			
25		B25			
26		C26			
27		D27			
28		A28			
29		B29			
30		C30			
31		D31			
32		A32			



FIG. 9

Frame No.	Group W	Group X	Group Y	Group Z	HDD22
33			C33		
34			D34		
35			A35		
36			B36		
37			C37		
38			D38		
39			A39		
40			B40		
41			C41		
42			D42		
43			A43		
44			B44		
45			C45		
46			D46		
47			A47		
48			B48		
49				D49	
50				A50	
51				B51	
52				C52	
53				D53	
54				A54	
55				B55	
56				C56	
57				D57	
58				A58	
59				B59	
60				C60	
61				D61	
62				A62	
63				B63	
64				C64	

FIG. 10

